BRUHATH BANGALORE MAHANAGARA PALIKE

DETAILED ESTIMATE FOR THE WORK OF DRILLING OF BOREWELLS ERECTION OF PUMP MOTOR IN SAHAKARANAGARA PARK WARD NO.8 KODIGEHALLI , KODIGEHALLI SUB DIVISION.

							Est. Cost Rs. 499000.00		
Sl. No	Description	Unit	Dimensions				Qty.	Rate	Amount
			No	L.	B.	D			
1	Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, MWS or P.W.S.S. by vertical electrical sounding by adopting gvenner. or schiberger's method, including reconnaissance survey of geological formation, geophysical investigation of existing ground water in the vicinity, its quality and acceptability of the users indicating the licating the location of site, recommended depth of 1.0 mtrs in consolidated formation for proper seating of casting pipe, depth of drilling required to cover full depth of acquifer proposed to be tapped, probate yield and other information required including transportation and accessories to work site, engaging technical personal and labour required etc.,(Page.no.42, item no.9.4) PRED SR 2011-12.								
		No	1				1.00	1957.00	1957.00
2	Sinking borewell of 165mm dia clear using super fast Hydrolic rig of capacity 250 PSIG na above 900 CFM and abaove in all strats including over burden upto 20M. fixing of casing pipes collars and cap with necessary, cutting and threading including transportation of rig and supporting vehicles, crew charges and cost of consumbables etclm complete including yield testing at the final depth with a minimum work in on compression for an hour (excluding cost of casing pipes collars cap etc.,)(P-41,I.NO.9.1 TO 9.2)PRED SR 2011-12								
a	0.00 to 50.00 mtrs	Rmtr	1	50.00			50.00	295.61	14781.00
b	50.00 to 100.00 mtr	Rmtr	1	50.00			50.00	390.37	19519.00
c	100.00 to 150.00 mtr	Rmtr	1	50.00			50.00	434.66	21733.00
d	150.00 to 200.00 mtr	Rmtr	1	50.00			50.00	477.92	23896.00
e	200.00 to 250.00 mtr	Rmtr	1	50.00			50.00	528.39	26420.00
f	250.00 to 300.00 mtr	Rmtr	1	15.00			15.00	566.50	8498.00
	Additional Rate item no.9.1 is allowed for drilling in over burden and fixing casing pipes beyond 20 M (for fixinig casing pipes only (a) Above 20M upto 30 M -15% (b) Above 30M -30% Ref PRED SR 2011-12 (Page no.48,)Note-1								
a	20.00 to 30.00 mtr	mtr	1	10.00			10.00	44.34	443.00
	above 30.00 mtr	mtr	1	20.00			20.00	88.68	1774.00
b	Above 30.00 mtr	mtr	1	11.00			11.00	117.11	1288.00
3	Supplying of ISI Mark 175 mm nominal bore, Plain end steel casing pipe - grade of steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments. electric resistance welded steel tube material and confirming to IS 1387/1993 and cmanufactured by basic open hearth electric or basic oxygen process in random length of 5 to 7 mtrs. Both ends threaded confirming to IS 554/1985. one end fixed with socket confirming to IS 4270:2001 and the other end with screwed pipes. All pipes shall be reasonably free from defects. The tubes shall be reasonably straight should be with ISI marking. weighing 25.10kg/mtr. (Inclusive of all taxes and durties) Prices include collar-medium duty. (Page no.ii, Item No.53/a)PRED SR 2011-12								
	Casing pipe	mtr	1	58			58.00	1325.00	76850.00
4	KSRB 13-3.1 : Providing and fixing in trenches galvanised / mild steel tubes (Medium grade) 50mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing specification No.KBS 13.2.14 /13.6 (Page no.79, item no.13.15) PWD SR 2011-12								
		Rmtr	1	260			260.00	298.92	77719.20
5	Providing 175mm dia MS collar (RDED SR page ii, item no.55)								
		Each	10				10.00	150.00	1500.00
6	Providing 175mm dia MS cap (RDED SR page ii, item no.54)								
		Each	1				1.00	100.00	100.00

	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper with low resistance conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and powder coating extruded PVC sheathed suitable for working voltage upto 1100Volts as per (Page no.49, Item no.29C/1) PRED-SR 2011-12								
		Nos	2	260.00			520.00	151.00	78520.00
8	Supply and deliveryat site brand new Texmo/Innoval/Lubi/Sabar/Atalanta/Calamal / Waterman/ Radha make suitable vertical installation in 150mm dia. Borewells comprisingof single stage or multistage CF pump close coupledby means of stainless steel coupling to suitable speed totally enclosed and filled with pure drinking water (wet type) squirrel cage submercible induction mortor suitable for operation of 3ph, 50Hz, 380/44 volts AC supply fitted with required accessories such as suction. casing, suction strainers, sand guard non return valve etc., complete the pump and motor shall form an integral unit with all the required fittings 15HP 30stage SE Approved rate letter No.2133 Dt:30/07/2010								
		Nos	1				1.00	52000.00	52000.00
9	Supplying and delivery at site brand new star/Essen/Lotus/Sun shine/ Adharsh/GK controls best indigenous make combined energy meter cum control panel board unit of size 1200x600x350mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for opration on 3ph, 50hz, 380/440 volts, AC supply with spring loaded latch, locking device with a key ribs should be provided inside the door canopy apron and louvrs ventilators shall be provided the combined energy meter cum control panel board units suitable for operation on 3ph, 50hz, 380/440 volts AC supply shall be consists etc., complete the panel board shall be consist etc., complete the panel board shall be fabricated on single unit in the above components panel board for suitable pumpset with star delta starter out door type 10hp to 15hp (As per rate approved by SE, RDED, Letter No.2133/2010-11, Dt:30.07.2010)								
	For new borewell	Each	1				1.00		
							1.00	10000.00	10000.00
10	Supply and fixing 500x500x65mm polished wood board made of not less than 15mm thick infront plank one end provided for olding at other end fixing the same of the valve using through bolts and nuts (Page No.346, Item No. 2(f), BWSSB SR 2008-09								
		Each	1	1			1.00	275.00	275.00
11	Supply 1.1 KV Class UG cable from nearset BESCOM pole to panel board including earth work and road restoratio 4 core 16sqmm Page.no.378, item no.10(d), BWSSB SR-2008-09								
		Mtr	1	15.35			15.35	150.00	2302.50
12	Labour charges for laying of 1.1 KV class UG cable when supplied by agencies in existing trench GI pipe / stoneware pipe / on wall / on pole as required.(page no.379, item no.77(a) BWSSB SR-2008-09								
		Mtr	1	25.00			25.00	5.00	125.00
13	Supplying & fixing of Porcelain fuse channel with cut out on existing wooden/panel using necessary nuts, bolts and washers. Etc., complete (Page No.32, Item No. 3(b)) Electrical SR-2010-11,								
		Each	2				2.00		
							2.00	219.00	438.00
14	Supplying and fixing 50mm non-return valve of vertical type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications. (As per rate approved by SE, RDED Letter No.2081/2010-11, Dt:28-07-2010)								
	For new borewell	Nos	1				1.00		
	For existing borewell		2				2.00		
							3.00	1530.00	4590.00
15	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required (Page No.350, Item No. item no.13(E, a) BWSSB SR-2008-09								
	For new borewell	Each	1				1.00		
							1.00	1075.00	1075.00
16	BESCOM Deposit charges and miscellanesous								10000.00

	...ting of road surface for pipeline trenches and disposing of the excavated stuff as ...irected including barricading, danger lighting etc., in the Cement concrete road. (Pg. No-...7, I.No-37.40)								
		Cum	1	40.00	0.30	0.15	1.80	497.14	**895.00**
34	...rthwork excavation for foundation of buildings water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. Noll KBS								
		Cum	1	40.00	0.30	0.30	3.60		
							3.60	198.22	**714.00**
35	Providing and installing at site of work P.V.C pipees including cost of pipes and specials and labour including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not leass than 15 cms with gravel or selected earth available from the excavation etc., complete PVC pipes of								
		Rmt	1	40.00			40.00	117.00	**4680.00**
37	Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5m. Including cost of all labour complete as per specification. (Pg. No-6, I.No-2.11)								
		Cum	Same As Item No - 34				3.60	53.00	**191.00**
38	Disposing of excavated earth to the final place of disposal with all lead and lift and as directed by the Engineer in charge of the work. (Lead up to 15.00 KM)								
		Cum	Same as Item No- 32 & 33				1.95	106.85	**208.00**
39	Transportation of pumping machineries PRE SR 2011-12 PG 51/10.3.19						1.00	850.00	**850.00**
40	Erection of Pumping machineries PRE SR 2011-12 PG 51/10.3.20						1.00	850.00	**850.00**
41	Miscellanious and rounding off						L.S		685.00
								TOTAL	499000.00

(Four Lakhs Ninety Nine Thousand Only)

Sub total Rs 448590.00
KRIDL charges Rs 49345.00 @ 890
Total Rs 4,99,000/-

CERTIFICATE:

1 Certified that the provisions made in this modified estimate is adequate and quite necessary.
2 Certified that the estimate is based on S.R.2012-13
3 The work spot has been inspected by me and the work is necessary.

ASSISTANT ENGINEER
WARD NO - 8

ASSISTANT EXECUTIVE ENGINEER
KODIGEHALLI SUB DIVISION
19/12/13

EXECUTIVE ENGINEER
BYATARAYANAPURA DIVISION
21/12/2013

ADMINISTRATIVELY SANCTIONED FOR Rs. 4.99
Rupees Four Lakhs ninety nine thousand only

Under .....

Registered as EE ( ) No.....
Subject to conditions con...
enclosed memo EE ( ) No.....
Dt..... Estimate A...
Addl Commr (Y) A.S/508/13-14/
dated 20/12/13 Rs 4.99 Lakh's
23/12/13

Addl Joint Commissioner
(Yelahanka Zone)
BBMP. Bengaluru-92

Technical Sanction for Rs. 4.99
Rs four Lakh's ninety nine thousand only

Under .....

registered ... EE No 255/13-14 A/23/12/13 subject to conditions contained enclosed memo.
No: 255/13-14 /..... Dt.....

AE/JE

EE (BTP Div)